

Attorney's Docket No.: 18636-009001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Santa Wiryaman et al.

Art Unit : 2157

Serial No. : 09/612,635

Examiner : Sahera Halim

Filed : July 7, 2000

Title : BANDWIDTH MANAGEMENT ALGORITHM

MAIL STOP ISSUE FEE

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

TRANSMITTAL OF FORMAL DRAWINGS

Please substitute the enclosed five (5) sheets of formal drawings for the corresponding drawings presently in the application.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date:

Dec. 20, 2005J. Robin Rohlicek

J. Robin Rohlicek, J.D., Ph.D.

Reg. No. 43,349

Fish & Richardson P.C.

225 Franklin Street

Boston, MA 02110

Telephone: (617) 542-5070

Facsimile: (617) 542-8906

21230503.doc

BEST AVAILABLE COPY

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

December 20, 2005

Date of Deposit

Cassie Chandler

Signature

Cassie Chandler

Typed or Printed Name of Person Signing Certificate

Page 1 of 5
Appl. No.: 09/612,635
Response to Notice of Allowance of October 3, 2005
Replacement Sheet

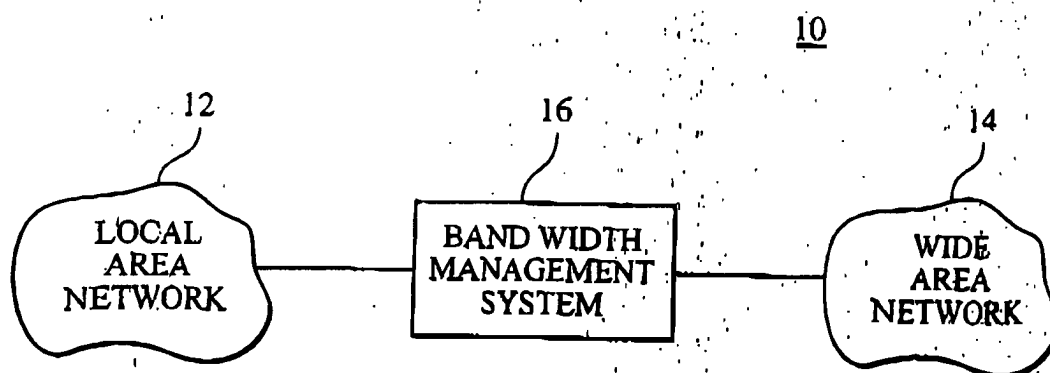


FIG. 1

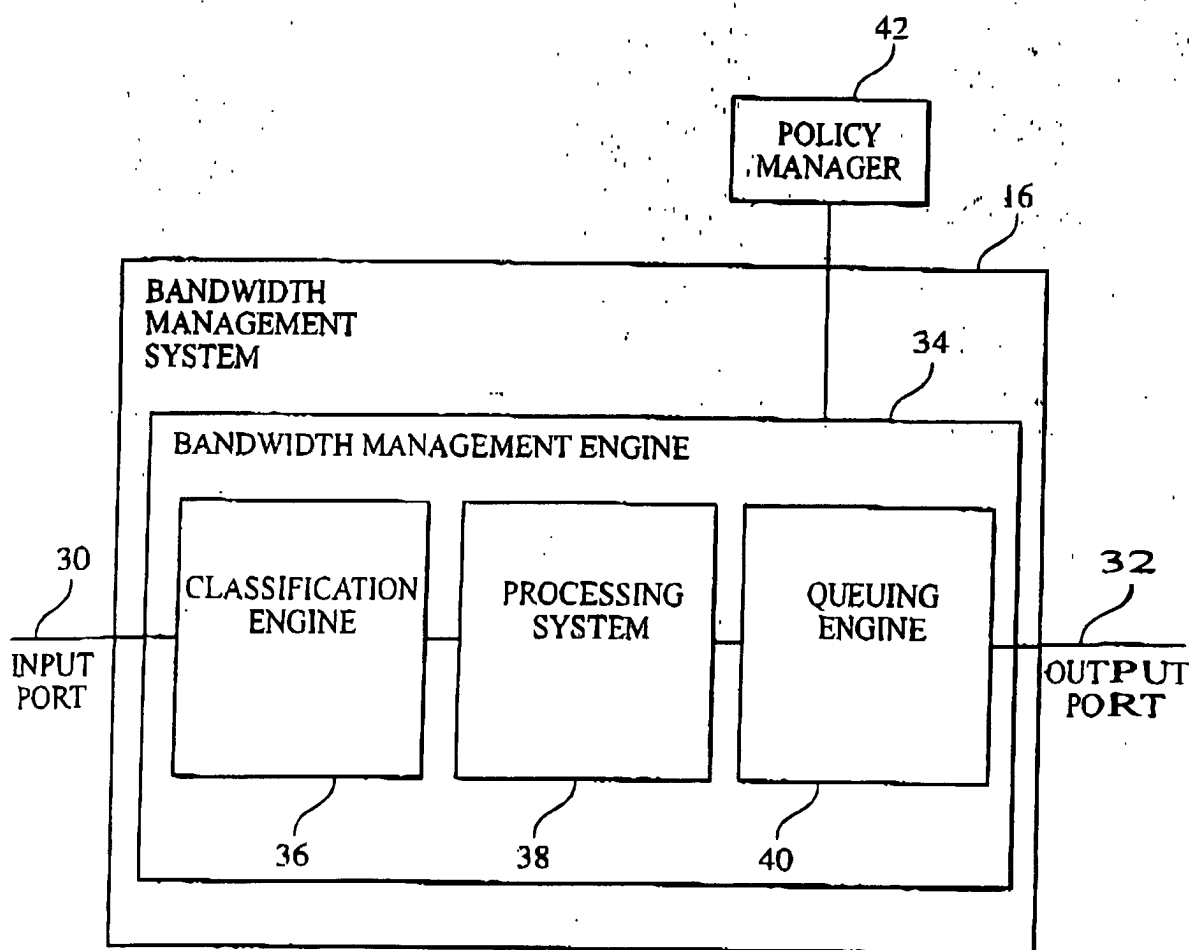


FIG. 2

BEST AVAILABLE COPY

Page 2 of 5
Appl. No.: 09/612,635
Response to Notice of Allowance of October 3, 2005
Replacement Sheet

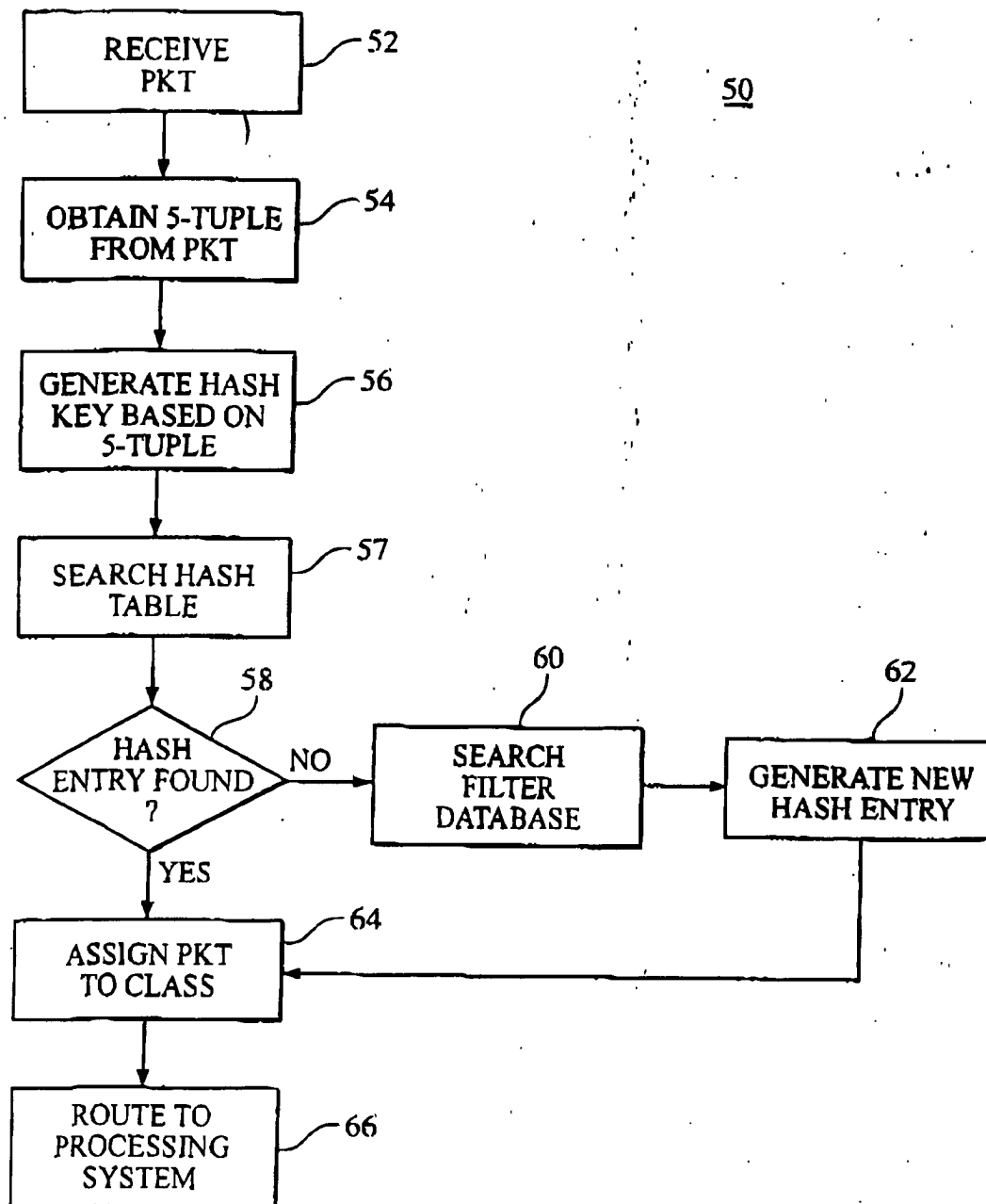


FIG. 3

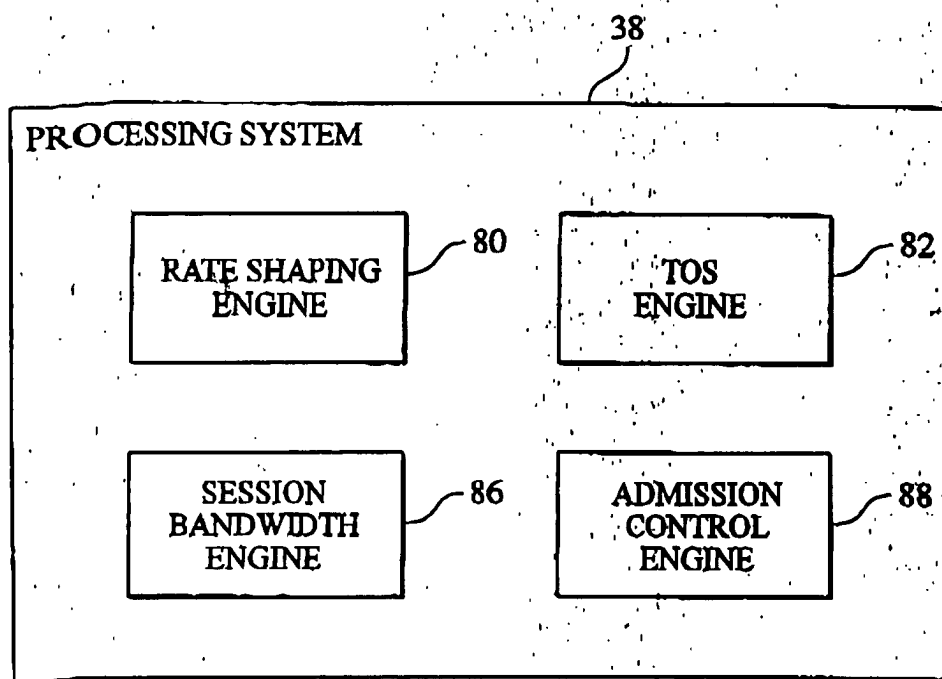


FIG. 4

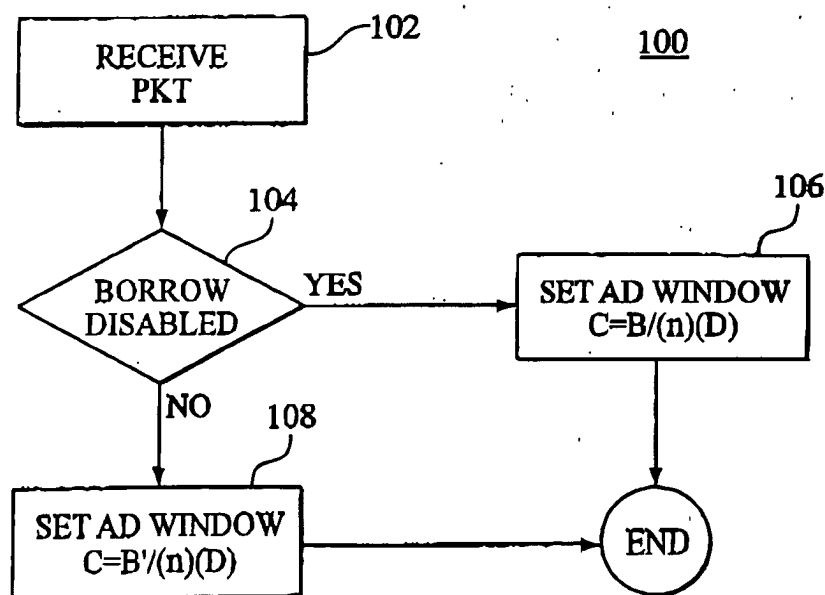


FIG. 5

Page 4 of 5
Appl. No.: 09/612,635
Response to Notice of Allowance of October 3, 2005
Replacement Sheet

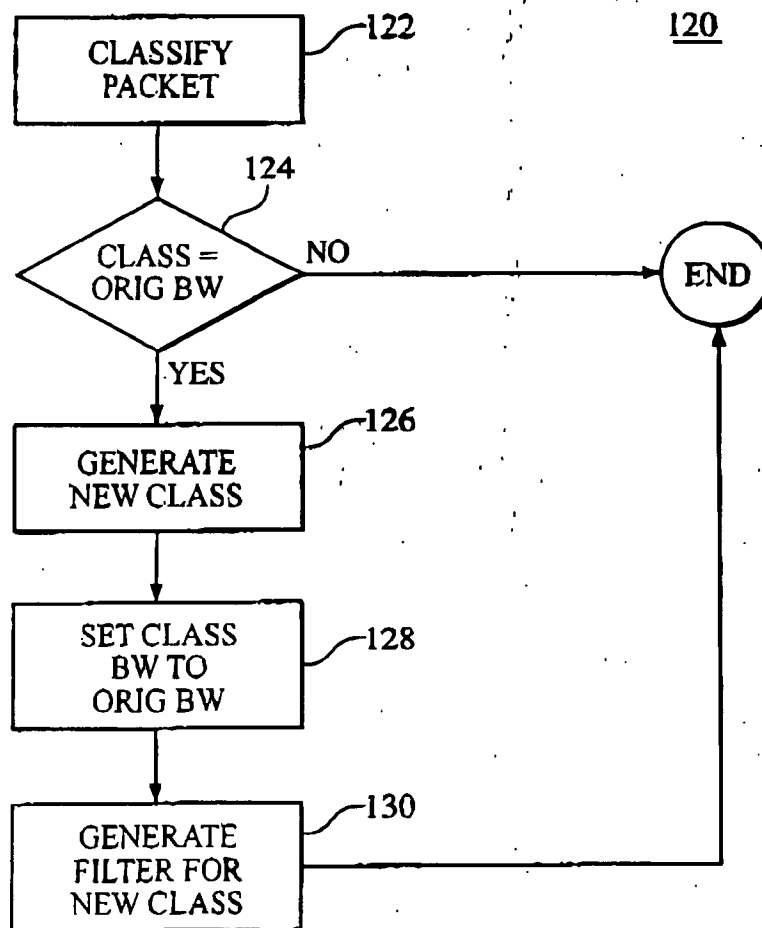


FIG. 6

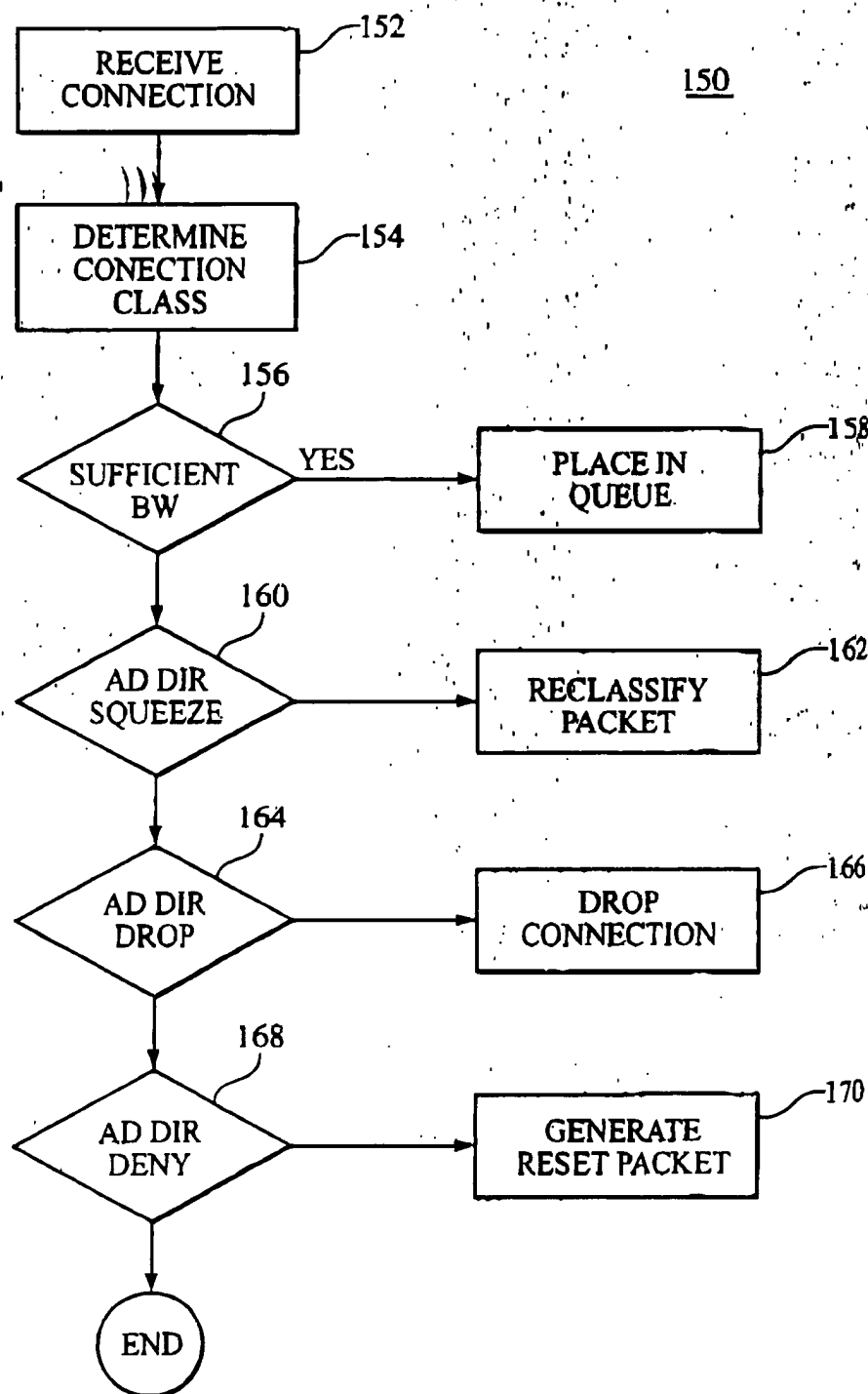


FIG. 7

Attorney's Docket No.: 18636-009001

OFFICIAL COMMUNICATION FACSIMILE:**OFFICIAL FAX NO: 703-308-5065**

Number of pages including this page 14

Applicant : Santa Wiryaman et al.
Serial No. : 09/612,635
Filed : July 7, 2000

Art Unit : 2157
Examiner : Sahera Halim

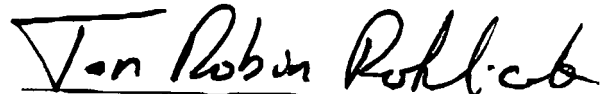
Title : BANDWIDTH MANAGEMENT ALGORITHM

MAIL STOP: ISSUE FEE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Attached to this facsimile communication cover sheet is Response to Corrected Notice of Allowance and copies of the Response to Notice of Allowance submitted to the United States Patent and Trademark Office on December 20, 2005, faxed this 30th day of December 2005, to the United States Patent and Trademark Office.

Respectfully submitted,



J. Robin Rohlicek, J.D., Ph.D.
Reg. No. 43,349

Date: December 30, 2005

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110
Telephone: (617) 542-5070
Fax: (617) 542-8906

21235207.doc

NOTE: This facsimile is intended for the addressee only and may contain privileged or confidential information. If you have received this facsimile in error, please immediately call us collect at (617) 542-5070 to arrange for its return. Thank you.

Attorney's Docket No.: 18636-009001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Santa Wiryaman et al. Art Unit : 2157
Serial No. : 09/612,635 Examiner : Sahera Halim
Filed : July 7, 2000 Confirmation No.: 7931
Notice of Allowance Date: October 3, 2005
Title : BANDWIDTH MANAGEMENT ALGORITHM

MAIL STOP ISSUE FEE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO CORRECTED NOTICE OF ALLOWANCE

In response to the Corrected Notice of Allowance mailed December 22, 2005 (copy attached), applicant hereby requests that the payment of the issue fee submitted on December 20, 2005 to the Patent and Trademark Office be applied, a copy of which is attached for review.

No fee is believed due as payment was provided with our response submitted on December 20, 2005. However, please apply any additional charges or credits to our Deposit Account No. 06-1050.

Respectfully submitted,

Date: 12/30/05

J. Robin Rohlicek, J.D., Ph.D.
Reg. No. 43,349

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

21235200.doc

BEST AVAILABLE COPY

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

December 30, 2005

Date of Deposit



Signature

Cassie Chandler

Typed or Printed Name of Person Signing Certificate



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

**CORRECTED
NOTICE OF ALLOWANCE AND FEE(S) DUE**

26161 7390 12/22/2005
FISH & RICHARDSON PC
P.O. BOX 1022
MINNEAPOLIS, MN 55440-1022

EXAMINER	
HALIM, SAHERA	
ART UNIT	PAPER NUMBER
2157	

DATE MAILED: 12/22/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/612,635	07/07/2000	Santa Wirynman	09150-012001	7931
TITLE OF INVENTION: BANDWIDTH MANAGEMENT SYSTEM WITH MULTIPLE PROCESSING ENGINES				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$0	\$700	01/03/2006

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** NEITHER A NOTICE OF ALLOWANCE NOR A CORRECTED NOTICE OF ALLOWANCE IS A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND ANY PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THE THREE MONTH PERIOD BEGINNING ON THE MAILING DATE OF THE PREVIOUSLY-MAILED NOTICE OF ALLOWANCE AND ENDING ON THE DATE DUE SHOWN ON THIS FORM, OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. MAILING OF THIS CORRECTED NOTICE OF ALLOWANCE DOES NOT CHANGE THE DATE DUE OF THE ISSUE FEE (AND ANY REQUIRED PUBLICATION FEE). IF A REPLY (WITH PAYMENT OF THE ISSUE FEE AND ANY PUBLICATION FEE) WAS FILED IN RESPONSE TO THE PREVIOUSLY-MAILED NOTICE OF ALLOWANCE, THEN NO FURTHER REPLY IS REQUIRED FROM APPLICANT.

All communications regarding this application must include the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE, unless advised to the contrary.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/612,635	07/07/2000	Santa Wiryanan	09150-012001	7931
26161	7590	12/22/2005		
FISH & RICHARDSON PC P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			EXAMINER HALIM, SAHERA	
			ART UNIT 2137	PAPER NUMBER

DATE MAILED: 12/22/2005

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 765 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 765 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Application No.

09/612,635

Examiner

Sahera Halim

Applicant(s)

WIRYAMAN ET AL.

Art Unit

2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicant's request for initial PTO-1449.
2. ☒ The allowed claim(s) is/are 1-30 and 41-44.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

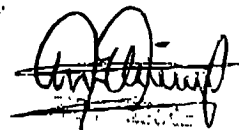
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 2/28/2005
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.7. ☐ Examiner's Amendment/Comment8. ☐ Examiner's Statement of Reasons for Allowance9. ☐ Other _____.


Sheet 1 of 1

Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 18636-009001	Application No. 09/612,635
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))				Applicant David Romrell et al.	
				Filing Date July 7, 2000	
				Group Art Unit 2157	
Other Documents (Include Author, Title, Date, and Place of Publication)					
Examiner Initial	Desig. ID	Document			
Sh	AA	Braun, Forsten, "IPnG: Neue Internet-Dienste und virtuelle Netze: Protokolle, Programmierung und Internetworking", Dpunkt Verlag, Ringstrasse 19, D-69115 Heidelberg, March 1999. XP-002175995.			

Examiner Signature <i>S. H. Adams</i>	Date Considered 12/8/05
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

Attorney's Docket No.: 18636-009001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Santa Wiryaman et al.
Serial No. : 09/612,635
Filed : July 7, 2000

Art Unit : 2157
Examiner : Sahera Halim
Confirmation No.: 7931
Notice of Allowance Date: October 3, 2005

Title : BANDWIDTH MANAGEMENT ALGORITHM

MAIL STOP ISSUE FEE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO NOTICE OF ALLOWANCE

In response to the Notice of Allowance mailed October 3, 2005, enclosed are a completed issue fee transmittal form PTOL-85b, transmittal of 5 sheets of formal drawings, and a check for \$730 for the required fee, including patent copies.

Please apply any additional charges or credits to our Deposit Account No. 06-1050.

Respectfully submitted,

Date:

Dec. 20, 2005Jan Robin Rohlicek

J. Robin Rohlicek, J.D., Ph.D.
Reg. No. 43,349

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

21230489.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

December 20, 2005

Date of Deposit

Cassie Chandler

Signature

Cassie Chandler

Typed or Printed Name of Person Signing Certificate

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
(571) 273-2885

or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

26161

7590

10/03/2005

FISH & RICHARDSON P.C.

P.O. Box 1022

Minneapolis, MN 55440

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

Cassie Chandler

(Depositor's name)

Cassie Chandler

(Signature)

12/20/2005

(Date)

APPLICATION NO.

09/612,635

FILING DATE

07/07/2000

FIRST NAMED INVENTOR

Santa Wiryanan

ATTORNEY DOCKET NO.

18636-009001

CONFIRMATION NO.

7931

TITLE OF INVENTION: BANDWIDTH MANAGEMENT ALGORITHM

APPLN. TYPE

nonprovisional

SMALL ENTITY

YES

ISSUE FEE

\$700

PUBLICATION FEE

50

TOTAL FEE(S) DUE

\$700

DATE DUE

01/03/2006

EXAMINER

HALIM, SAHERA

ART UNIT

2157

CLASS-SUBCLASS

709-232000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47: Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Fish & Richardson P.C.

2. _____

3. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE (CITY and STATE OR COUNTRY)

Converged Access, Inc.

Billerica, MA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

☒ Issue Fee☐ Publication Fee (No small entity discount permitted)☒ Advance Order - # of Copies 10

4b. Payment of Fee(s):

☒ A check in the amount of the fee(s) is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☒ The Director is hereby authorized to charge the required fee(s), or credit any overpayment, to Deposit Account Number 06-1050 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.2.7.☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

NOTE: The issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered agent or, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

(Authorized Signature)

Van Robin Rohlicek

(Date)

12/20/05

December 20, 2005

Typed or Printed Name

J. Robin Rohlicek, J.D., Ph.D.

Registration No. 43,349

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE(S)